

# Thouraya Kharrat



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## Current position :

### **Associate Professor**

Researcher in Laboratory of "Stability and control of systems, nonlinear PDEs", LR 13 ES 21.

## Research interests :

Control Theory, Stability, Stabilization, Nonlinear Systems

## List of publications :

- 1- H. Jerbi, T. Kharrat, Asymptotic stabilizability of homogenous polynomial systems of odd degree, Systems & Control Letters, (2003).
- 2- H. Jerbi, T. Kharrat, Only a level set of a control Lyapunov function for homogeneous systems, Kybernetika, (2005).
- 3- A. Benabdallah, T. Kharrat, J. C. Vivalda, On practical observer for nonlinear uncertain systems, Systems & Control Letters, (2008).
- 4- H. Jerbi, W. Kallel, T. Kharrat, On the Stabilization of Homogeneous Perturbed systems, Journal of Dynamical and Control Systems, (2008).
- 5- H. Jerbi, T. Kharrat, W. Kallel, Some Results on Stability and Stabilization of Homogeneous Time-Varying Systems, Mediterranean Journal of Mathematics, (2013).
- 6- T. Kharrat, Stability of Homogeneous nonlinear Systems, IMA Journal of Mathematical Control and Information (2015).
- 7- H. Jerbi, T. Kharrat, F. Omri, Global stabilization of a class of bilinear systems in  $R^3$ , Mediterranean Journal of Mathematics, (2015).
- 8- H. Jerbi, T. Kharrat, K. Sioud, Stabilization of Homogeneous Polynomial Systems in the Plane, Kybernetika (2016).
- 9- T. Kharrat, Stabilization of nonlinear homogeneous systems, IMA Journal of Mathematical Control and Information (2017).
- 10- W. Kallel, T. Kharrat, Stabilization of nonlinear systems with varying parameter by a control Lyapunov function, Kybernetika (2017).